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09/859,396	05/18/2001	Masahiro Fushimi	P20611	3632
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GREENBLUM & BERNSTEIN, P.L.C.			SELBY, GEVELL V	
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Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Etherisation for immunity or available under the provisions of 3 CFR 1.136(d), in no event, however, may a reply be timely filed Etherisation for myth specified above is less than thirty (30) days, a neply within the statutory minimum or thirty (30) days, as neply within the statutory minimum or thirty (30) days, and the control of the provision of the mailing date of this communication for myth specified above, in maximum statutory period with pays and vel despite (50) (80) MTHS from the mailing date of this communication for mything the statutory minimum or thirty (10) days with the considered timely. 1) M Responsive to communication(s) filed on 08 November 2004. 2a) This action is FINAL. 2b) M This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1/13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1/13 is/are rejected. 7) Claim(s) 1/13 is/are rejected to. 8) Claim(s) 1/13 is/are objected to by the Examiner. 10) The prediction is objected to by the Examiner. 10) The prediction is objected to by the Examiner. 10) The orawing(s) filed on 5/18/01 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * (c) None of: 1. Certified copies of the prior		Application No.	Applicant(s)				
Casimin Casi		09/859,396	FUSHIMI ET AL.				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Elements of the inner type is available under the provision of 3 CFR 1.79(a), in o event, however, may a reply be timely filed to the proof for reply specified above is less than thirty (30 days, a reply within the statutory minimum of thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30 days, a reply within the statutory minimum of thirty (30) days will be considered timely. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of the reply and will expect (50) (60) (71) (71) (71) (71) (71) (71) (71) (71	Office Action Summary	Examiner	Art Unit				
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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see the amendment, filed 11/8/04, with respect to the rejection(s) of claim(s) 1-13 under 35 U.S.C 102 and 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Sakamoto et al., US 5,648,653.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 6, 9, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Sakamoto et al., US 5,648,653.

In regard to claim 1, Sakamoto et al., US 5,648,653, discloses a cover plate for covering an opening of a casing in which a solid state imaging device is disposed (see figure 2, elements 3a, 3b, and 4), said cover plate comprising:

a transparent cover plate member (see figure 2, element 3a and 3b) that hermetically covers said opening (see column 5, lines 10-16); and

a conductive film layer (see figure 2, element 4) that covers an outermost surface of said transparent cover plate member (see column 5, lines 49-55 and 61-64: The

conductive film layer meets the claimed limitation in that it comprising plurality of film layers on the outer surface wherein a least one is a conductive film layer).

In regard to claim 2, Sakamoto et al., US 5,648,653, discloses a cover plate according to claim 1, wherein said conductive film layer comprises a metallic film layer (see column 5, lines 49-55 and 61-64).

In regard to claim 6, Sakamoto et al., US 5,648,653, discloses a cover plate according to claim 1, wherein said transparent cover plate member comprises a plurality of laminated transparent plates (see figure 2) and at least one of said transparent plates comprises an infrared cut-off filter (see figure 2, element 4 and 4, lines 30-35).

In regard to claim 9, Sakamoto et al., US 5,648,653, discloses a cover plate according to claim 1, wherein said transparent cover plate member comprises a plurality of laminated transparent plates and at least one of said transparent plates comprises a cover glass (see figure 11, element 31).

In regard to claim 11, Sakamoto et al., US 5,648,653, discloses a cover plate according to claim 1, wherein said transparent cover plate member comprises at least one infrared cut-off filter and said conductive film layer is formed on at least one side of said infrared cut-off filter (see column 4, lines 30-35 and figure 4: a conductive film layer forms at least one side of the filter).

In regard to claim 12, Sakamoto et al., US 5,648,653, discloses a cover plate according to claim 1, wherein said transparent cover plate member comprises at least one cover glass (see figure 3, element 12) and said conductive film layer is formed on at least one side of said cover glass (see column 5, lines 13-24).

In regard to claim 13, Sakamoto et al., US 5,648,653, discloses an image pickup device (see figure 2), comprising:

a solid state imaging device (see figure 2, elements 6a-d and 7a-d);
a casing to which said state imaging device is disposed (see figure 2, element 2);
a transparent cover plate member (see figure 2, elements 3a and b)that

a conductive film layer (see figure 2, element 4) that covers an outermost surface of said transparent cover plate member (see column 5, lines 49-55 and 61-64: The conductive film layer meets the claimed limitation in that it comprising plurality of film layers on the outer surface wherein a least one is a conductive film layer).

hermetically covers an opening of said casing (see column 5, lines 10-16); and

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto et al., US 5,648,653 in view of Kaifu, US 6,191,411.

In regard to claim 3, Sakamoto et al., US 5,648,653, discloses a cover plate according to claim 2. The Sakamoto reference discloses the metallic film layer may

include Au, Ag, Cu and Al (see column 5, lines 61-64) but does not disclose a Cr film layer.

Kaifu, US 6,191,411, discloses an image sensor with a glass insulating substrate that has a thin metal film of Al and/or Cr applied to it (see column 7, line 61 to column 8, lines 2)

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Sakamoto et al., US 5,648,653 in view of Kaifu, US 6,191,411, to configure the metallic film layer to be Cr, in order to be easily formed into thin film layers.

5. Claims 4, 7, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651.

In regard to claim 4, Sakamoto et al., US 5,648,653, discloses a cover plate according to claim 1. The Sakamoto reference does not disclose that the transparent cover plate member comprises a plurality of laminated transparent plates and at least one of said transparent plates comprises an optical low-pass filter.

Tsuyuki et al., US 6,069,651, discloses a solid-state image sensor comprising a glass cover (see figure 30, element 42) a filter unit (10) and the CCD (16). The filter unit (10) includes a low-pass filter and an infrared cut-off filter, placed immediately before the CCD in the optical path (see column 5, lines 4-6).

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651, to have a plurality of laminated transparent plates and at

least one of said transparent plates comprises an optical low-pass filter in order to block unwanted light while allowing acceptable light to pass to protect the image sensor.

In regard to claim 7, Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651, discloses a cover plate according to claim 6. The Sakamoto reference does not disclose wherein at least one of said transparent plates comprises an optical low-pass filter.

Tsuyuki et al., US 6,069,651, discloses a solid-state image sensor comprising a glass cover (see figure 30, element 42) a filter unit (10) and the CCD (16). The filter unit (10) includes a low-pass filter and an infrared cut-off filter, placed immediately before the CCD in the optical path (see column 5, lines 4-6).

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651, to have at least one of said transparent plates comprises an optical low pass filter and an infrared cut-off filter in order to block certain light ranges while allowing others to pass to the image sensor.

In regard to claim 8, Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651, discloses a cover plate according to claim 7. The Sakamoto reference does not disclose the filter configuration claimed. The Tsuyuki reference discloses a filter configuration wherein an infrared cut-off filter (see figure 6, element 61 and an optical low-pass filter (see figure 6, element 59) are arranged so that the infrared cut-off filter is disposed at a side closer to said solid state imaging device (see figure 6, element 16) with the glass cover providing a hermetically sealed structure (see column 8, lines 39-59).

It would have been obvious to one of ordinary skill in the art to configure Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651, to have the optical low-pass filter are arranged so that the infrared cut-off filter is disposed at a side closer to said solid state imaging device in order to maintain the infrared cutoff filter operating longer since it has poor moisture resistance.

2. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651 as applied to claim 4 above, and further in view of Osawa, US 6,650,474.

In regard to claim 5, Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651, discloses a cover plate according to claim 4. The Tsuyuki reference discloses that the low-pass filter is formed by crystals (see column 16, lines 14-17) but does not disclose that the crystals are lithium niobate plates.

Osawa, US 6,650,474, discloses an optical filter (see figure 1, element 1) comprising several layers wherein two of the layers are birefringent plates (see figure 1, elements 1a and 1d and column 10, lines 54-60). The reference discloses using lithium niobate for the plates (see column 12, lines 10-15).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Sakamoto et al., US 5,648,653, in view of Tsuyuki et al, US 6,069,651, and further in view of Osawa, US 6,650,474, to have the optical filter comprise a plurality of lithium niobate plates in order to take advantage of lithium niobate's birefringent effect.

3. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakamoto et al., US 5,648,653, in view of Osawa, US 6,650,474.

In regard to claim 10, Sakamoto et al., US 5,648,653, discloses a cover plate according to claim 1. The Sakamoto reference does not disclose that the transparent cover plate member comprises at least one lithium niobate plate and said conductive film layer is formed on at least one side of said lithium niobate plate.

Osawa, US 6,650,474, discloses an optical filter (see figure 1, element 1) comprising several layers wherein two of the layers are birefringent plates (see figure 1, elements 1a and 1d and column 10, lines 54-60). The reference discloses using lithium niobate for the plates (see column 12, lines 10-15).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Sakamoto et al., US 5,648,653, in view of Osawa, US 6,650,474, to have the transparent cover plate member comprises at least one lithium niobate plate and said conductive film layer is formed on at least one side of said lithium niobate plate in order to take advantage of lithium niobate's birefringent effect.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gevell Selby whose telephone number is 571-272-7369. The examiner can normally be reached on 8:00 A.M. - 5:30 PM (every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on 571-272-7950. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gvs

TUAN HO
PRIMARY EXAMINER